

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/017985

A. CLASSIFICATION OF SUBJECT MATTER

H01L31/042 H01L31/05 H01L31/048

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 013, no. 097 (E-723), 7 March 1989 (1989-03-07) & JP 63 271978 A (SHARP CORP), 9 November 1988 (1988-11-09) abstract ----- A PATENT ABSTRACTS OF JAPAN vol. 1999, no. 05, 31 May 1999 (1999-05-31) & JP 11 031715' A (MATSUSHITA ELECTRIC IND CO LTD), 2 February 1999 (1999-02-02) abstract ----- -/-	1,4,10 1,8,10, 17



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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Date of the actual completion of the international search

31 October 2005

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20.01.2006

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 16, 8 May 2001 (2001-05-08) & JP 2001 025891/A (MATSUSHITA ELECTRIC IND CO LTD), 30 January 2001 (2001-01-30) abstract ----- PATENT ABSTRACTS OF JAPAN vol. 017, no. 199 (E-1352), 19 April 1993 (1993-04-19) & JP 04 343481 A (CANON INC), 30 November 1992 (1992-11-30) abstract; figures 1,3-6 ----- PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) & JP 11 214733 A (KYOCERA CORP), 6 August 1999 (1999-08-06) abstract ----- PATENT ABSTRACTS OF JAPAN vol. 2002, no. 04, 4 August 2002 (2002-08-04) & JP 2001 345458 A (KYOCERA CORP), 14 December 2001 (2001-12-14) abstract; figure 1 ----- US 5 478 402 A (HANOKA ET AL) 26 December 1995 (1995-12-26)	1,8,10, 17 1,2,4,5, 10,12-14 1,10 1,10

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Information on patent family members

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